

TA-H3600

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



This set is the Amplifier section in MHC-3600 and FH-E838CD.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6 ohm loads both channels driven, from 70 - 20000 Hz; rated 30 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Continuous RMS power output

For satellite speaker:
15 + 15 watts (8 ohms at 1 kHz, DIN)
20 + 20 watts (8 ohms at 1 kHz, 5% THD)
For bass speaker:
20 + 20 watts (6 ohms at 110 Hz, DIN)
25 + 25 watts (6 ohms at 110 Hz, 5% THD)

Music power output

(for AEP, UK, Germany, Italian model)

For satellite speaker:
35 + 35 watts (8 ohms at 1 kHz, 10% THD)
For bass speaker:
50 + 50 watts (6 ohms at 110 Hz, 10% THD)

Peak music power output

(for E, Saudi Arabia, Australian model)

340 watts

Inputs

MIX MIC (minijack):
sensitivity 1 mV,
impedance 600 ohms
ADAPTOR (pin jacks)
(for E, Saudi Arabia model)
sensitivity 300 mV,
impedance 47 kilohms

Outputs

HEADPHONES
(stereo minijack):

accepts headphones of 8 ohms or more.

ADAPTOR (pin jacks)

(for E, Saudi Arabia model)

output level 300 mV

impedance 10 kilohms

SPEAKER (SATELLITE):

accepts speakers of 8 to 16 ohms.

SPEAKER (BASS):

accepts speakers of 6 to 16 ohms.

Design and specifications subject to change with out notice.

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STEREO AMPLIFIER
SONY®

SAFETY CHECK-OUT

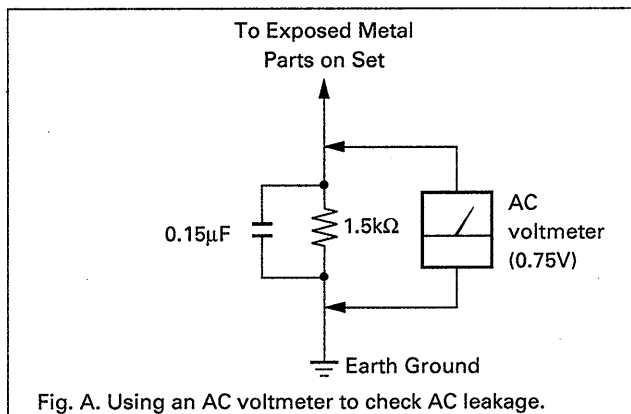
After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig.A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

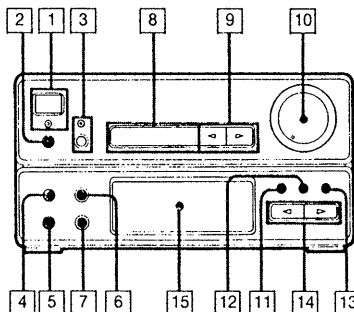
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER SES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

LOCATION OF CONTROLS

- 1 SYSTEM POWER switch and STANDBY indicator
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
- 2 HEADPHONES jack (stereo minijack)
- 3 WAKE UP button and indicator
- 4 MIC (microphone) LEVEL control
- 5 MIX MIC (microphone) input jack
- 6 DISPLAY button
- 7 DIRECT button
- 8 Function indication display
- 9 FUNCTION <> buttons
- 10 VOLUME control
- 11 EQ (equalizer) button and indicator
- 12 S-SUR (simulated surround) button and indicator
- 13 DBFB (Dynamic Bass Feedback) button and indicator
- 14 PRESET <|> buttons
- 15 Display window

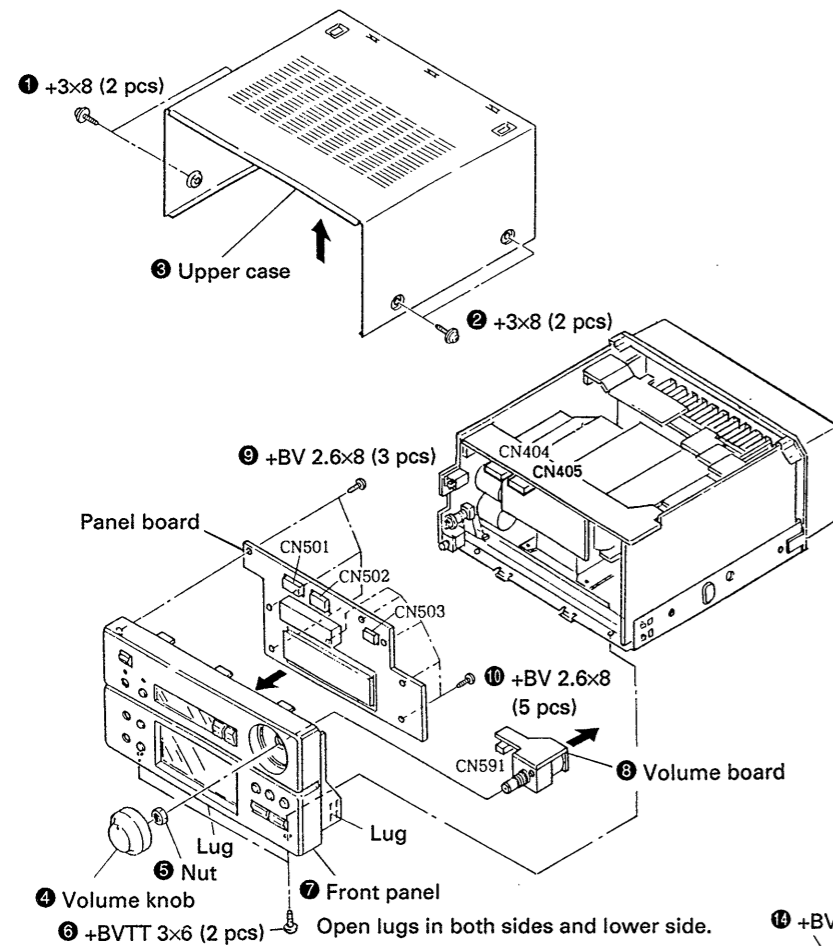
This section is extracted from instruction manual.



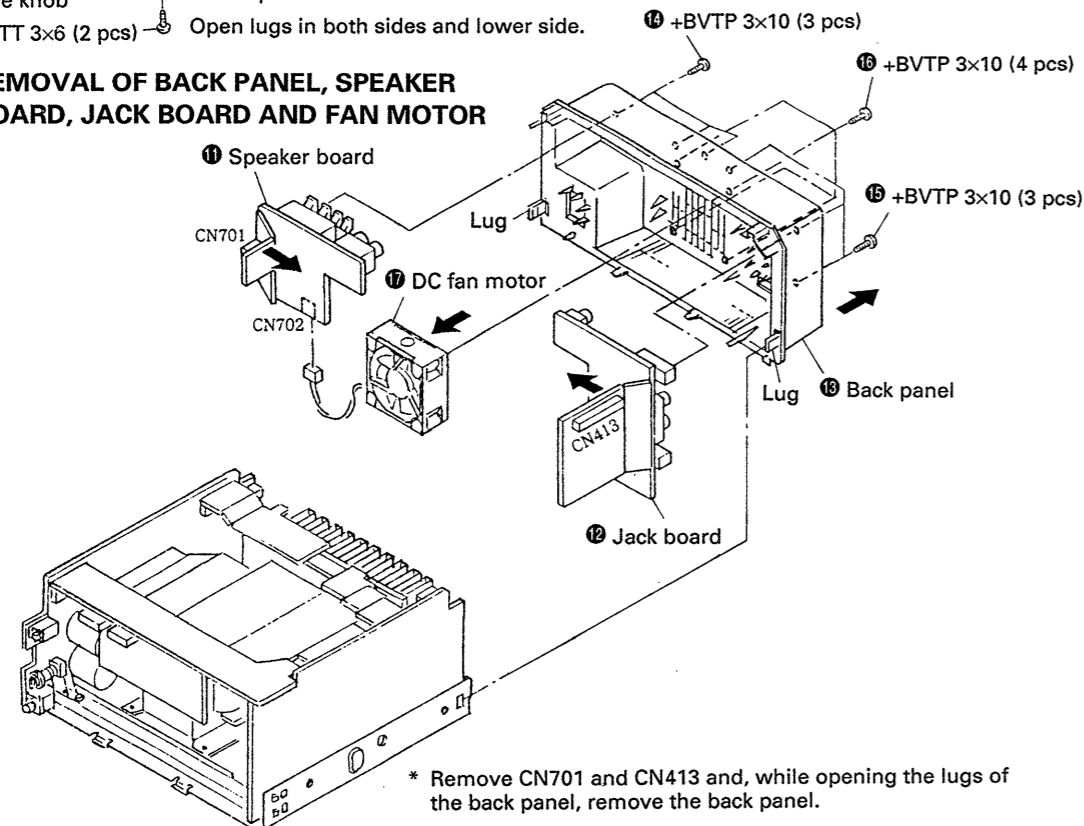
SECTION 2 DISASSEMBLY

- Remove the following parts with the numbers in that order of the numbers.

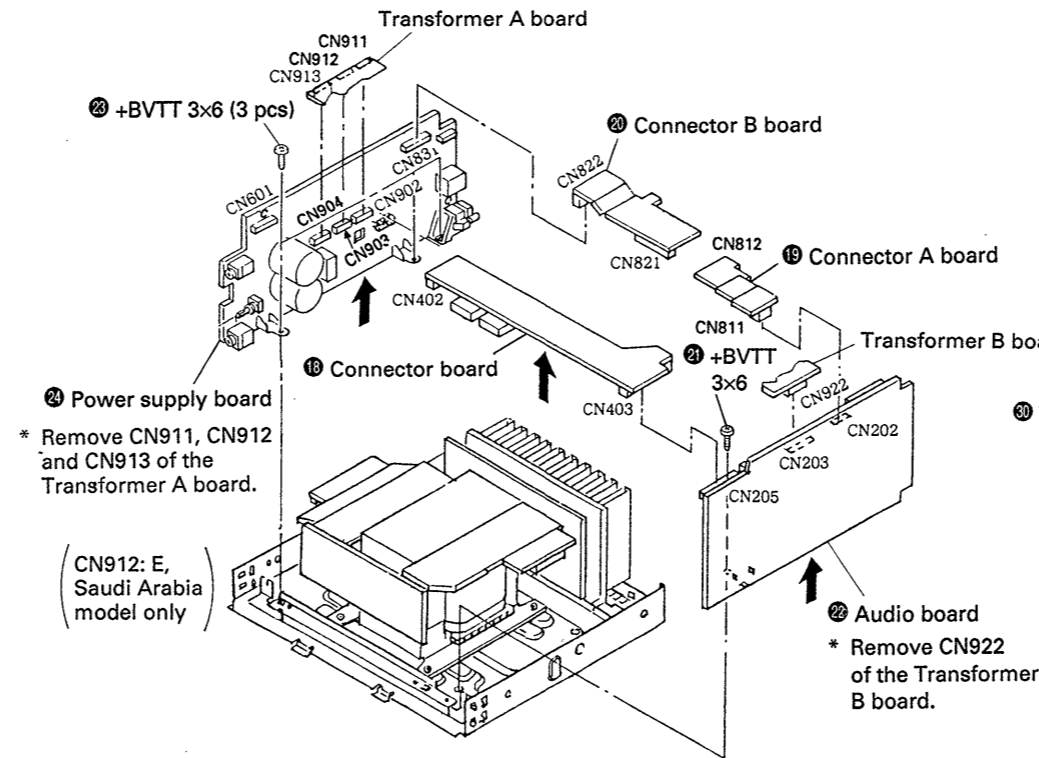
2-1. REMOVAL OF UPPER CASE, FRONT PANEL AND PANEL BOARD



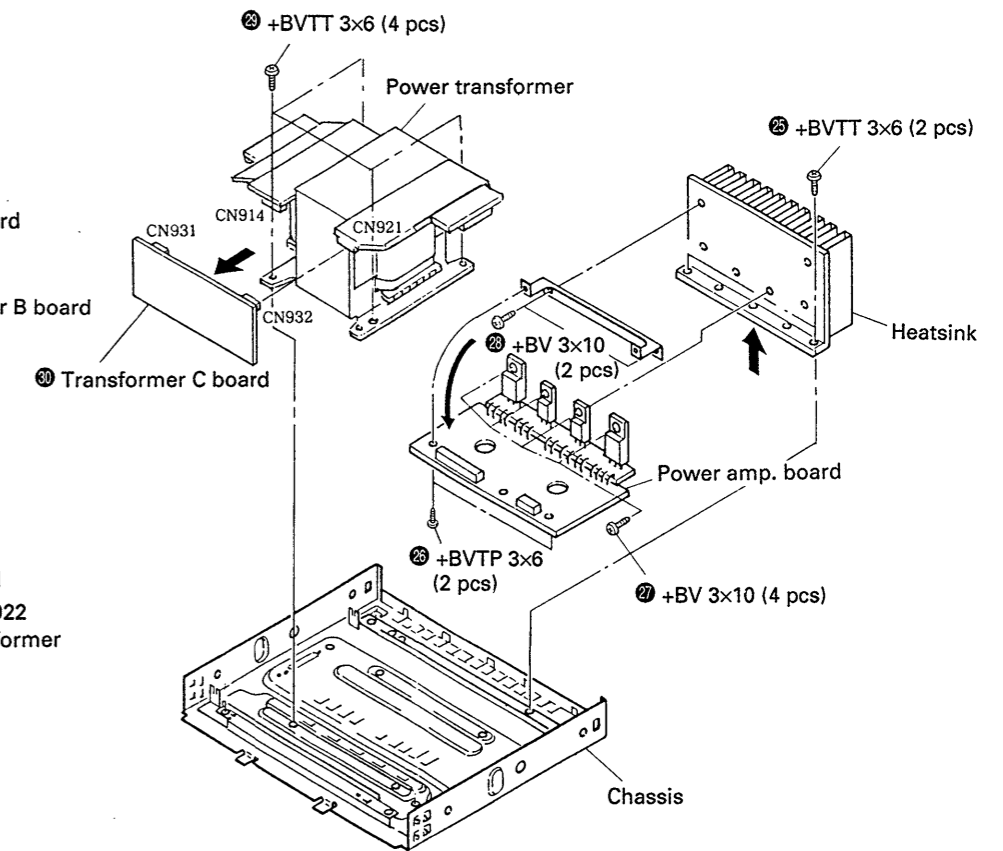
2-2. REMOVAL OF BACK PANEL, SPEAKER BOARD, JACK BOARD AND FAN MOTOR



2-3. REMOVAL OF AUDIO BOARD, POWER SUPPLY BOARD, CONNECTOR BOARD AND TRANSFORMER BOARD

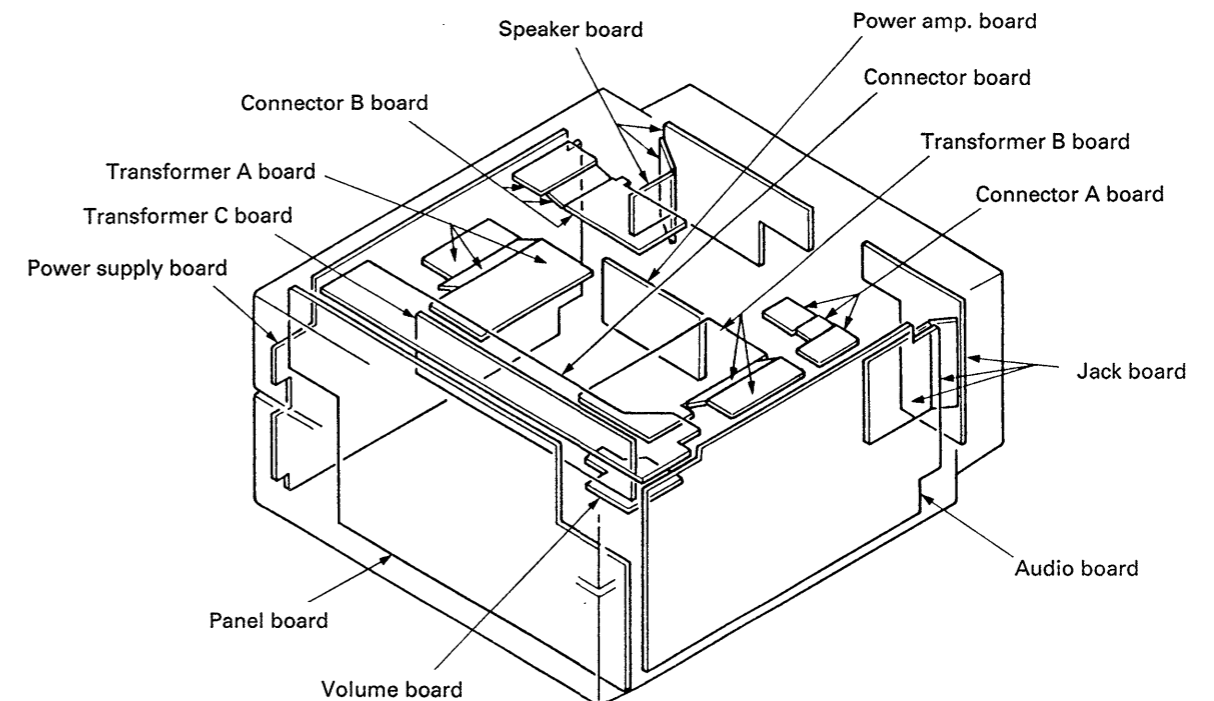


2-4. REMOVAL OF POWER TRANSFORMER, POWER AMP. BOARD, TRANSFORMER C BOARD AND HEATSINK



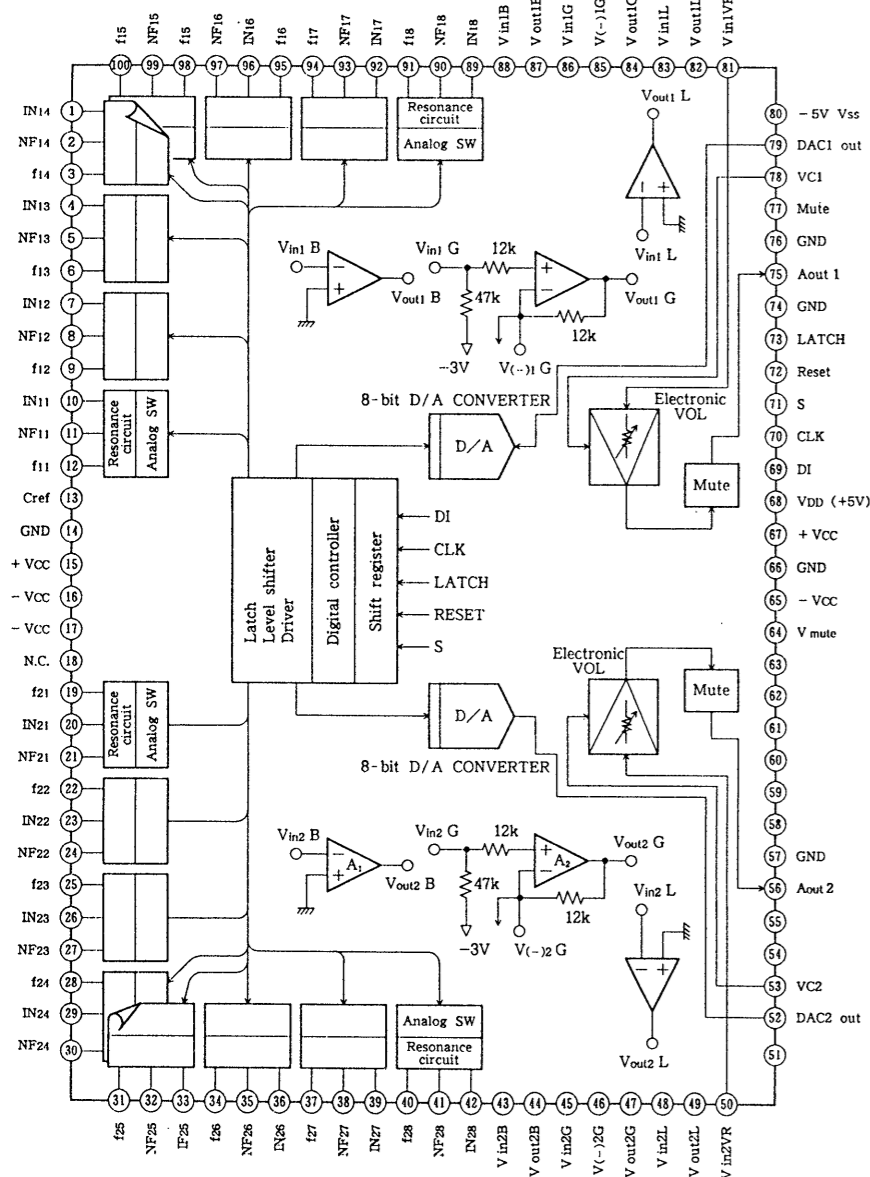
SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

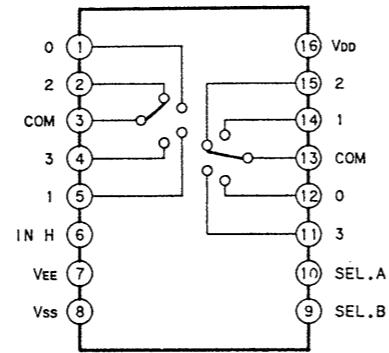


3-2. IC BLOCK DIAGRAMS

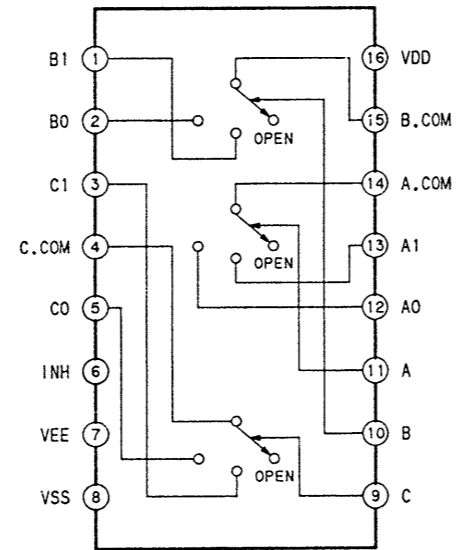
IC201 CXA1492Q



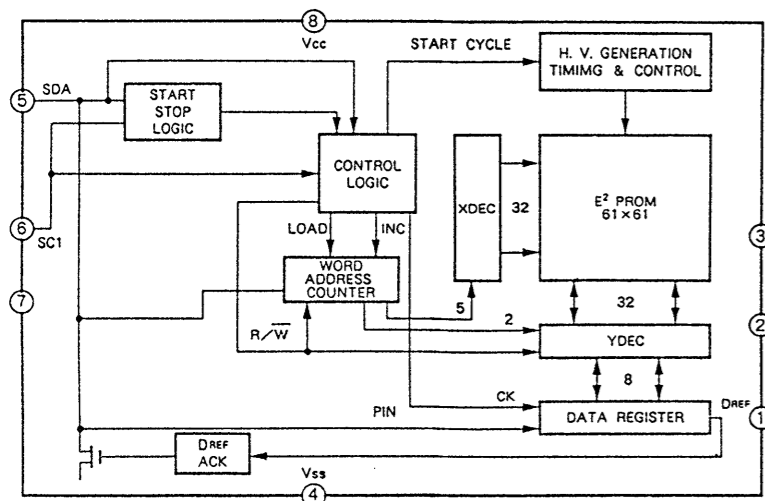
IC304, 503 MC14052BF



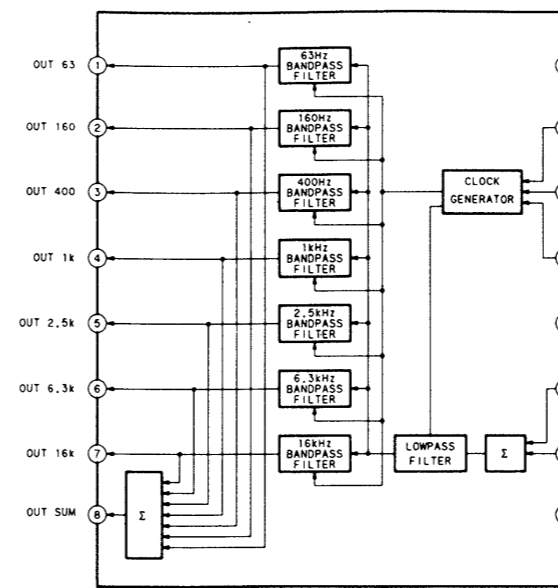
IC305 HD14053BFP



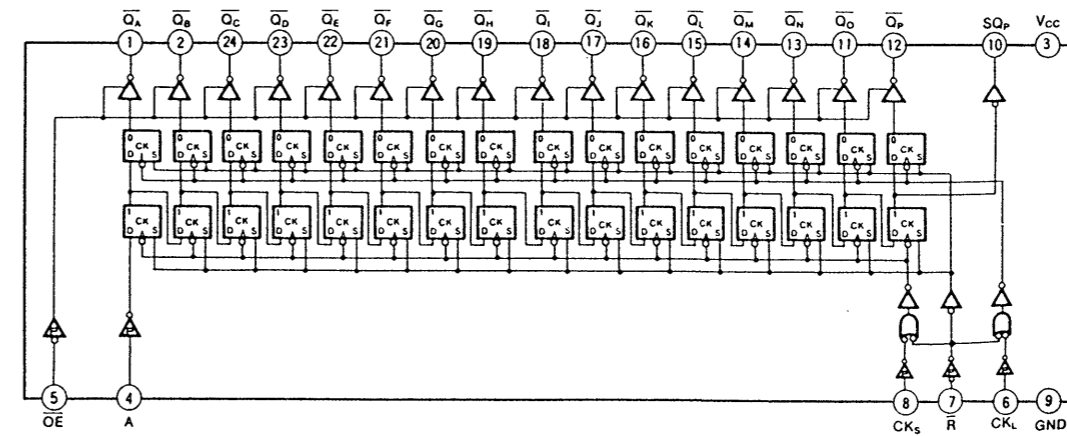
IC502 X24C01P



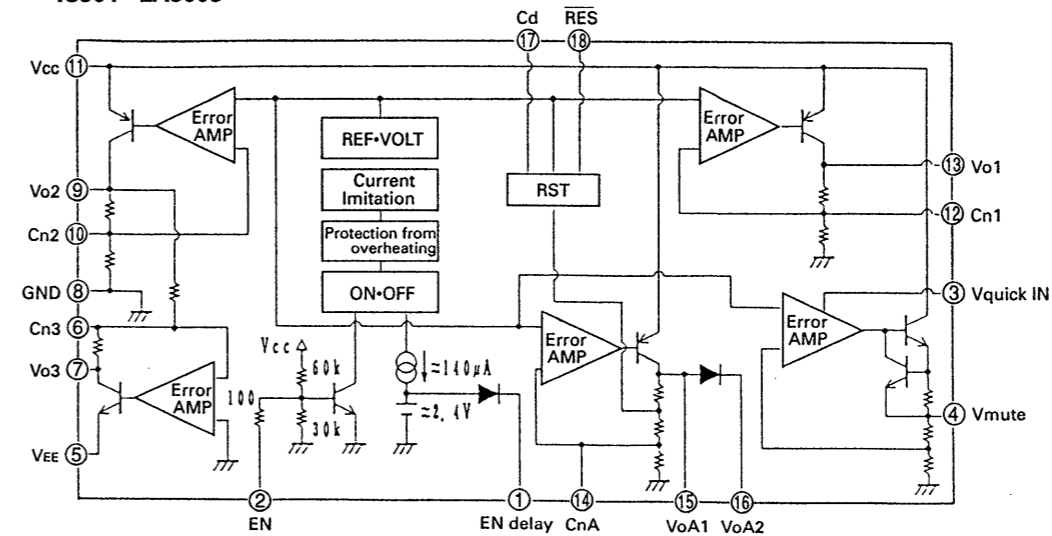
IC504 XR1091DCP



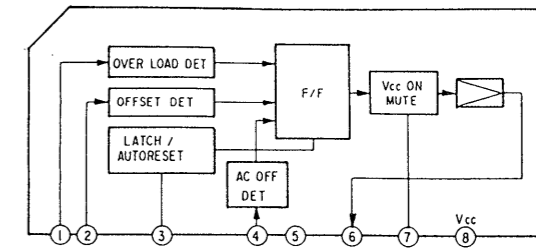
IC507 M66311FP



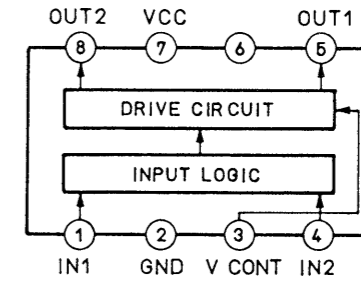
IC901 LA5603



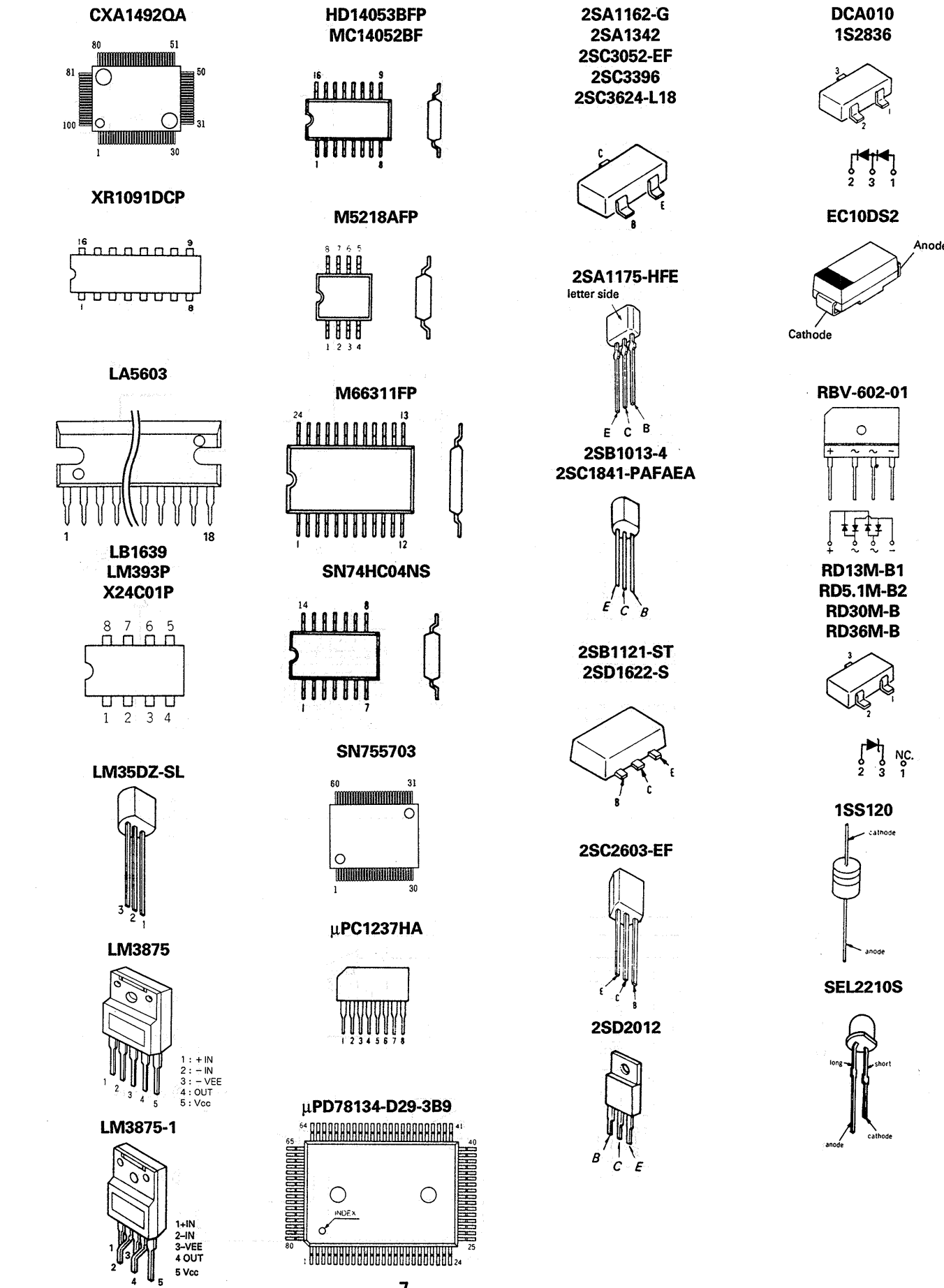
IC701 μPC1237HA



IC591 LB1639



3-2. SEMICONDUCTOR LEAD LAYOUTS

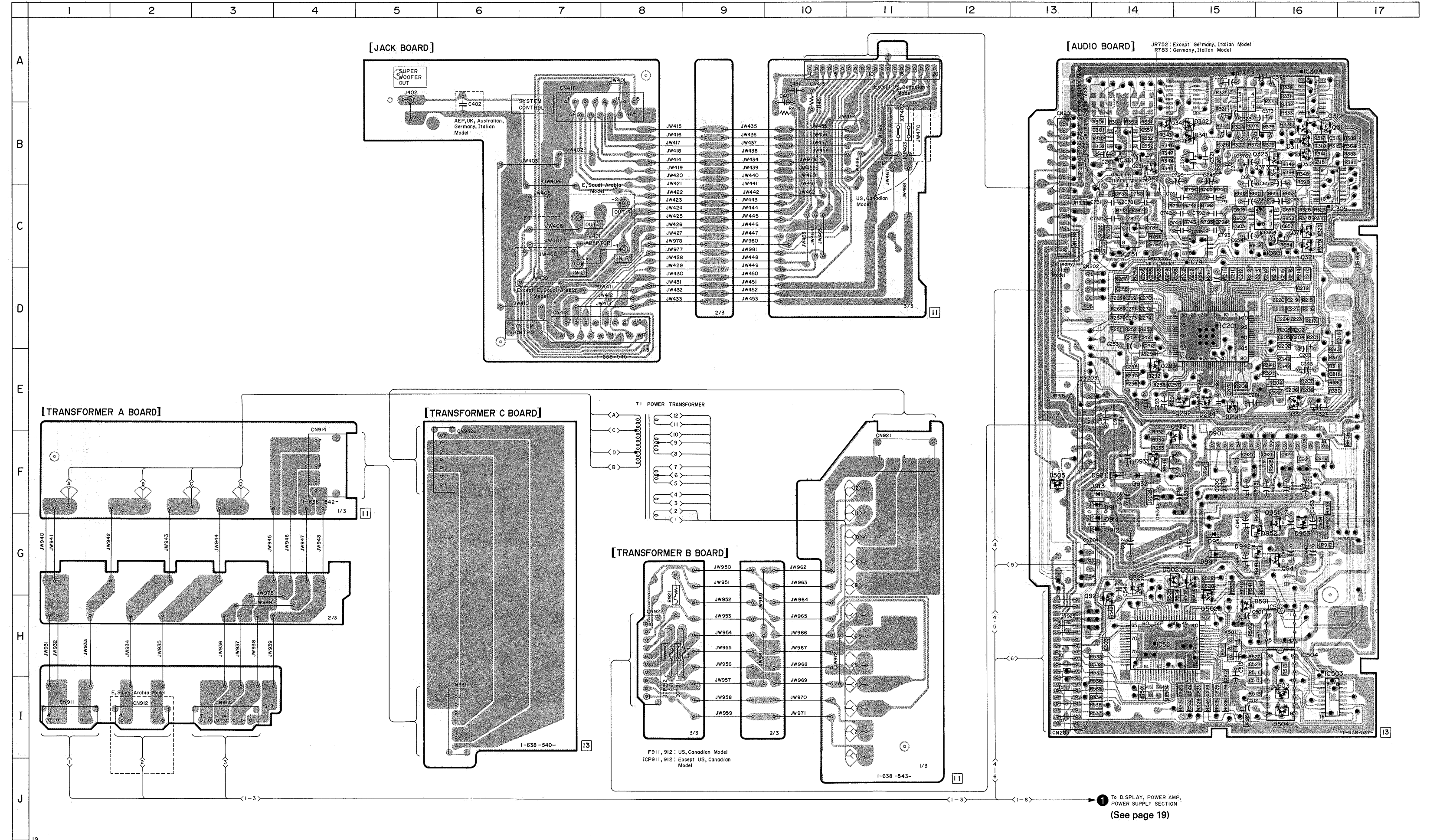


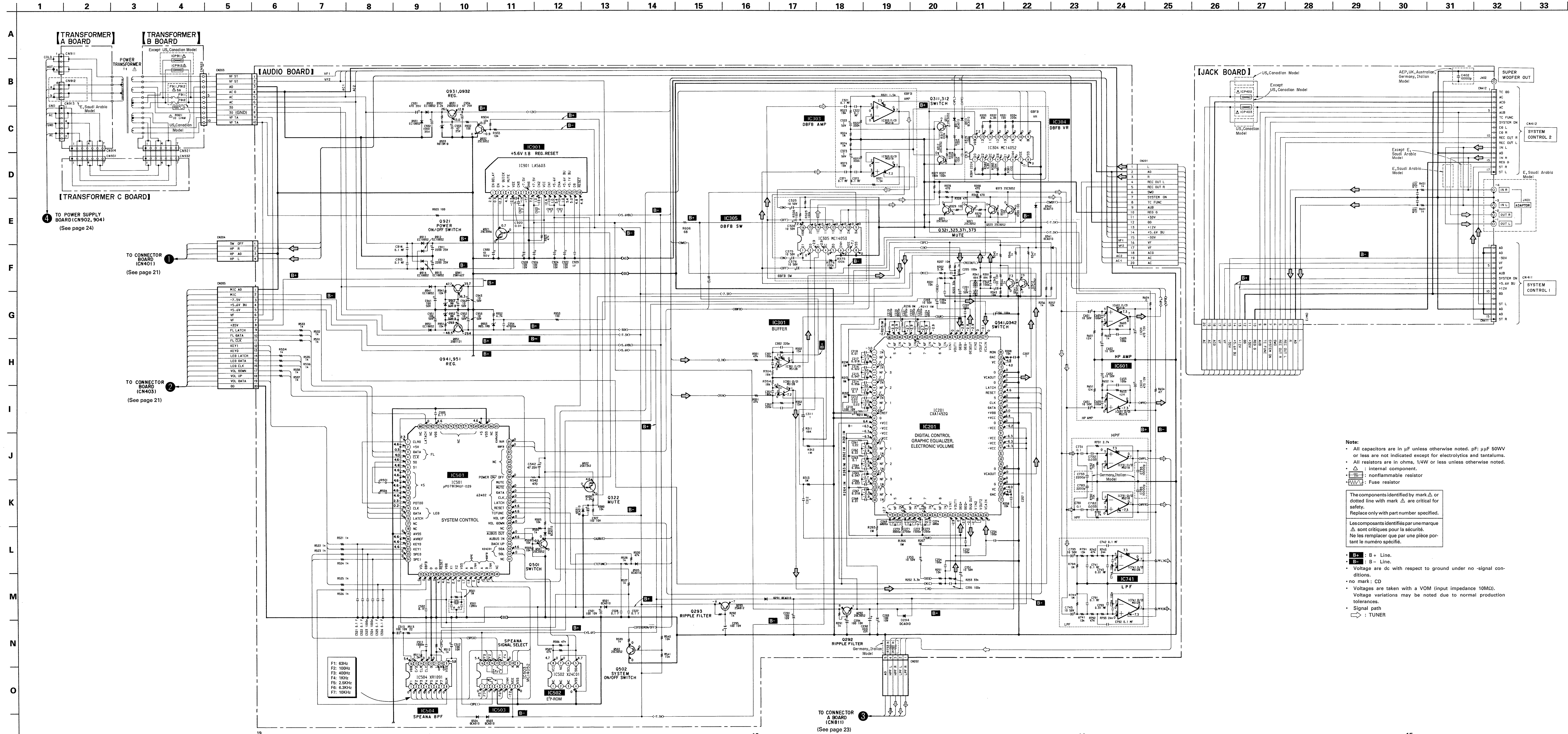
● SEMICONDUCTOR LOCATION • MAIN BOARD

Ref. No	Location	Ref. No	Location
D291	E-15	Q292	E-15
D294	E-15	Q293	E-14
D311	B-16	Q311	B-17
D312	B-16	Q312	B-16
D331	E-16	Q321	C-16
D341	B-15	Q322	G-14
D342	B-15	Q323	B-16
D501	H-16	Q341	B-15
D502	G-14	Q342	B-14
D503	I-16	Q371	C-16
D504	I-16	Q373	B-16
D505	F-13	Q501	G-15
D911	F-14	Q502	H-15
D912	G-14	Q921	H-14
D913	F-14	Q931	F-15
D914	G-14	Q932	E-15
D931	F-14	Q941	G-16
D932	F-14	Q951	G-16
D933	F-14		
D941	G-15		
D942	G-15		
D951	G-15		
D952	G-16		
D953	G-16		
IC201	D-15		
IC301	B-14		
IC303	A-15		
IC304	A-16		
IC305	C-16		
IC501	H-14		
IC502	H-16		
IC503	H-16		
IC504	H-16		
IC601	C-16		
IC731	C-14		
IC741	C-15		
IC901	F-15		

Note:
 ○ : indicated a lead wire mounted on the component side.
 ■ : parts mounted on the conductor side.
 ● : Through hole.
 ◐ : Pattern from the side which enables seeing.
 ◑ : Pattern of the rear side.

3-4. PRINTED WIRING BOARD - MAIN SECTION -





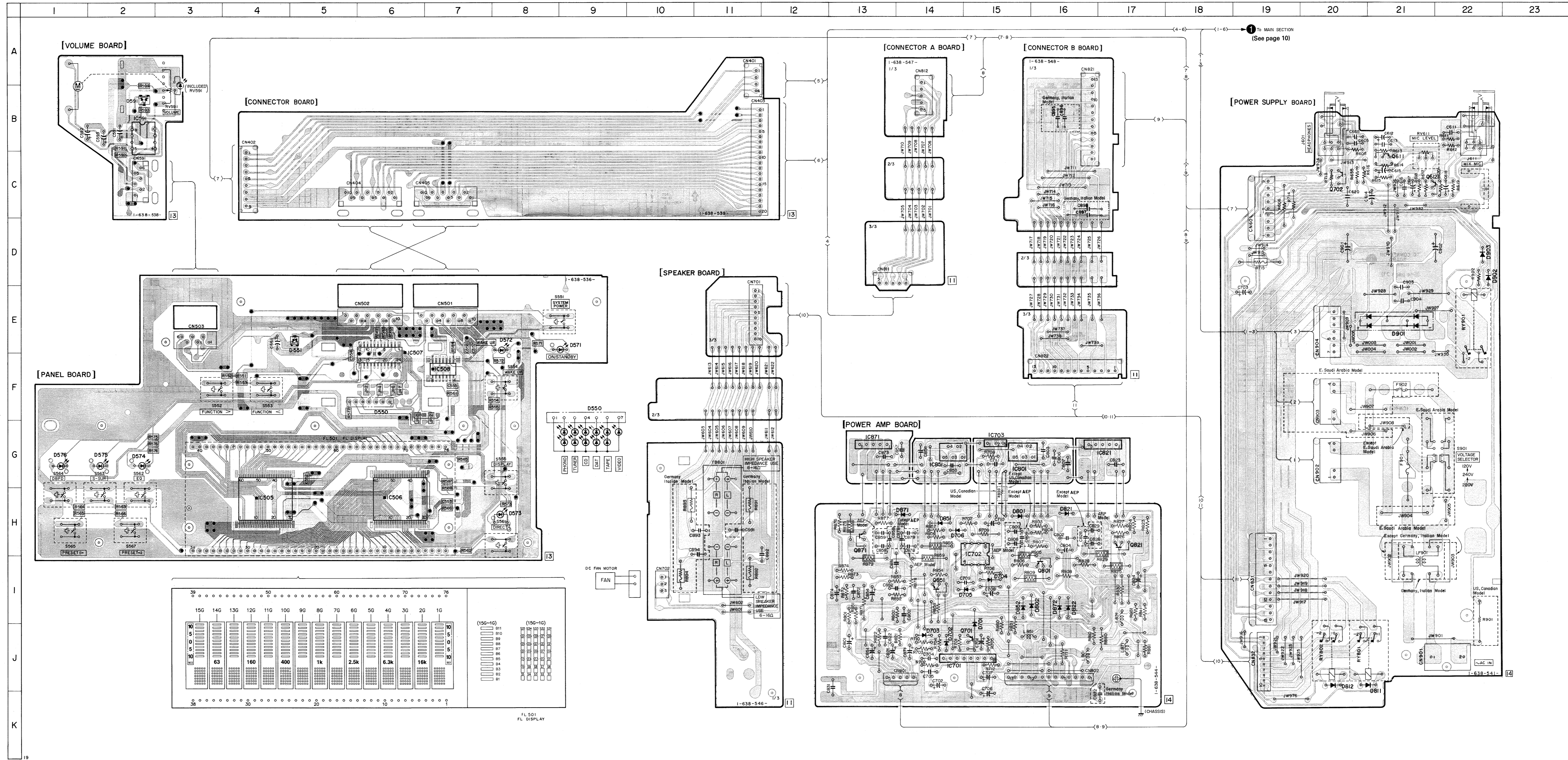
TO POWER SUPPLY BOARD (IC902, 904)
(See page 24)

TO CONNECTOR BOARD (CN401)
(See page 21)

TO CONNECTOR BOARD (CN403)
(See page 21)

TO CONNECTOR BOARD (CN811)
(See page 23)

- Note:**
- All capacitors are in μF unless otherwise noted. pF: $\mu F/100$ or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, 1/4W or less unless otherwise noted.
 - Δ : internal component.
 - \square : nonflammable resistor
 - \square : fuse resistor
- The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.
- Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
- B+ : B+ Line.
 - B- : B- Line.
 - Voltage are dc with respect to ground under no-signal conditions.
 - no mark : CD
 - Voltagés are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path
 - \Rightarrow : TUNER

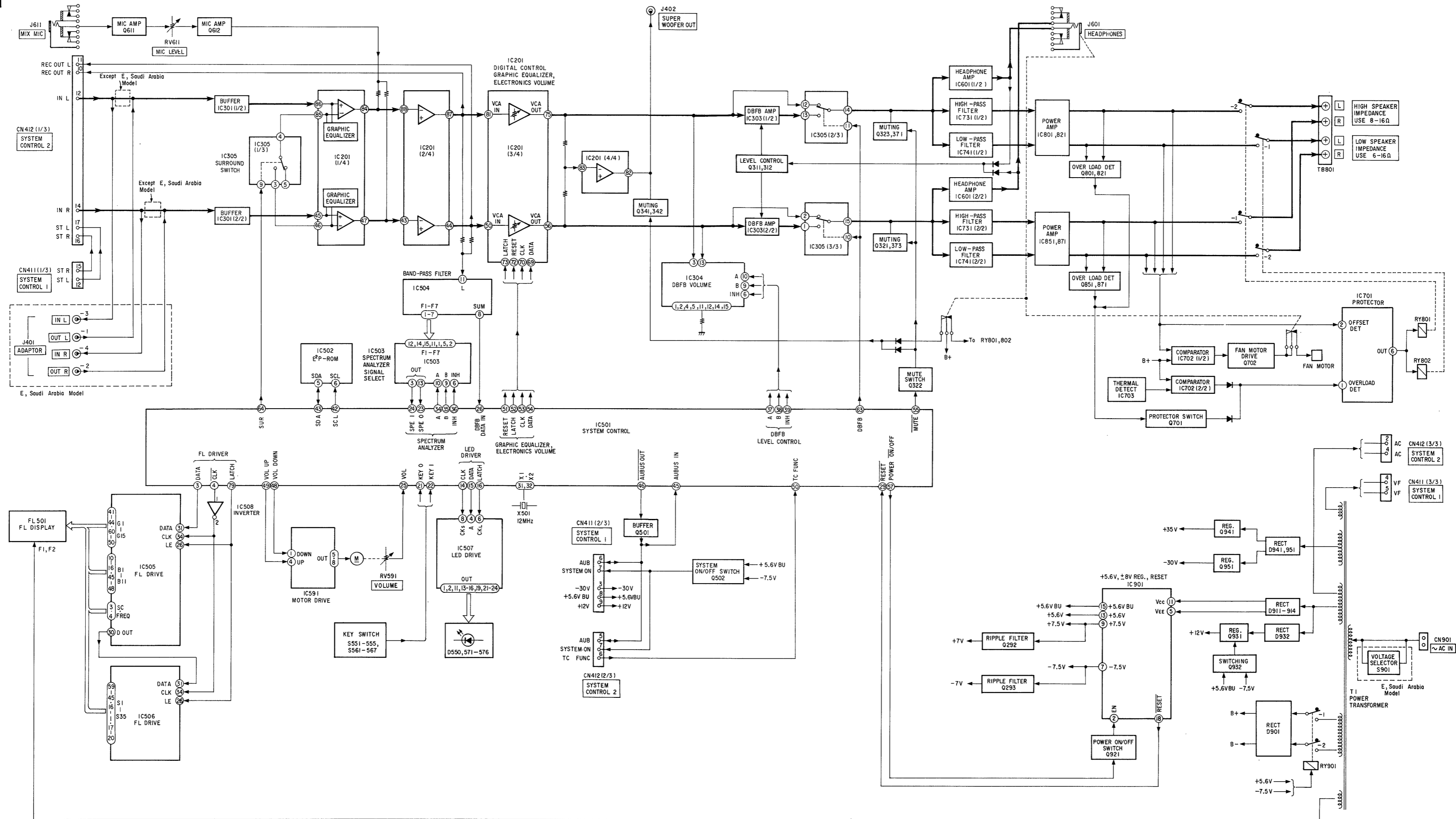


● SEMICONDUCTOR LOCATION
• PANEL/POWER BOARD

Ref. No	Location	Ref. No	Location
D550	F-6	IC505	H-4
D551	E-5	IC506	H-6
D571	E-9	IC507	E-6
D572	E-8	IC508	F-7
D573	H-8	IC591	B-2
D574	G-2	IC701	J-14
D575	G-2	IC702	H-15
D576	G-1	IC703	G-15
D591	B-2	IC801	G-15
D701	J-15	IC821	G-17
D702	J-14	IC851	G-14
D703	J-14	IC871	G-13
D704	I-15		
D705	I-15	Q611	C-21
D706	H-15	Q612	C-21
		Q701	J-15
D801	H-16	Q702	C-20
D802	I-16	Q801	I-16
D811	K-21		
D812	K-20	Q821	H-17
D821	H-16	Q851	I-14
		Q871	H-13
D822	I-16		
D851	H-14		
D852	I-15		
D871	H-14		
D872	I-16		
D901	E-21		
D902	D-22		
D903	D-22		

Note:
 ○ : indicated a lead wire mounted on the component side.
 ■ : parts mounted on the conductor side.
 ● : Through hole.
 ○ : Pattern from the side which enables seeing.
 ○ : Pattern of the rear side.

BLOCK DIAGRAM



3-8. PIN FUNCTIONS OF IC501 (μPD 78134-D29-3B9)

According to keying in or remote control signal, it sets the Graphic equalizer electronic volume (IC201), DBFB, surround etc. and switches the LED and FL tube display and functions in the deck.

Pin No.	Pin name	I/O	Description
1	CLR	I	Timer pulse input
2	+5V	I	Not in use with the equipment (+5V)
3	DATA	O	Serial data output to the FL tube driver (IC505, 506)
4	CLK	O	Data transfer clock output to the FL tube driver (IC505, 506)
5	S0	I	Input port for model selection. Connected to GND with the equipment.
6	S1	I	Input port for model selection. Connected to +5V with the equipment.
7-12	-	I	Not in use with the equipment (+5V)
13	POT00	O	Timer pulse output (about 400μSec)
14	CLK	O	Data transfer clock output to the LED driver (IC507)
15	DATA	O	Serial data output to LED driver (IC507)
16	LATCH	O	Data latch output to the LED driver (IC507)
17-18	PWM 0, PWM 1	O	Not in use with the equipment (open)
19	AVss	-	Analog system power terminal (GND)
20	AVref	I	Analog port reference voltage input (+5V)
21-22	KEY 0, 1	I	Key input (Analog)*1
23-24	SPE 0, 1	I	Spectrum analysis data input (analog)
25	VOL	I	Volume position data input (analog)
26	DBFB	I	DBFB data input
27-28	-	I	Not in use with the equipment (GND)
29	RESET	I	System reset input. "L" : reset
30	VDD	-	Power terminal (+5V)
31-32	X2, X1	-	Crystal connection terminal for system clock oscillation
33	VSS	-	Power terminal (GND)
34	A	O	Spectrum analysis data input switch A
35	B	O	Spectrum analysis data input switch B
36	INH	O	Spectrum analysis data input switch inhibit
37	A	O	DBFB output switch A } *2
38	B	O	
39	INH	O	
40-41	-	O	Not in use with the equipment (open)
42	SCL	O	Clock output to EEP-ROM (IC502)
43	SDA	I/O	Data input/output (user preset memory data, etc.) with EEP-ROM (IC502)
44	-	O	Not in use with the equipment (open)
45	AU BUS IN	I	Audio bus input
46	AU BUS OUT	O	Audio bus output (tuner power ON/OFF and instruction to the function switch microcomputer in the deck)
47	-	O	Not in use with the equipment (open)
48	VOL DOWN	O	DOWN signal output of the volume motor (RV591)
49	VOL UP	O	UP signal output of the volume motor (RV591)
50	TC FUNC	I	Request of audio bus (FUNCTION data) from the function switch microcomputer in the deck (TC-H3600)
51	RESET	O	Reset output to the Graphic equalizer electronic volume (IC201) "L" : reset
52	LATCH	O	Data latch output to the Graphic equalizer electronic volume (IC201)

Pin No.	Pin name	I/O	Description
53	CLK	O	Data transfer clock output to the Graphic equalizer electronic volume (IC201)
54	DATA	O	Serial data output to the Graphic equalizer electronic volume (IC201)
55	MUTE	O	Mute reverse output
56	MUTE	O	Mute output
57	POWER ON/OFF	O	Power (IC901) output control. "L" : Power ON
58-62	-	O	Not in use with the equipment (open)
63	DBFB	O	DBFB ON/OFF (IC305) controller output. "H" : ON, "L" : OFF
64	SUR	O	Surround ON/OFF (IC302 1/2) controller output. "H" : surround ON
65	KARAOKE	O	Not in use with the equipment (open)
66	ASTB/CLO	O	Not in use with the equipment (open)
67	VSS	-	Power terminal (GND)
68	EA	I	Not in use with the equipment (open)
69-76	-	O	Not in use with the equipment (open)
77	VDD	-	Power terminal (+5V)
78	-	O	Not in use with the equipment (open)
79	LATCH	O	Data latch output to the FL tube driver (IC505, 506)
80	-	O	Not in use with the equipment (open)

*1 Key input (analog port)

Voltage (V)	0	0.63	1.3	2.0	2.6	3.2
Input port						
Pin Ⓣ KEY 0	POWER S551	FUNCTION AUDIO S552	FUNCTION VIDEO S553	WAKE UP S554	DISPLAY S555	—
Pin Ⓣ KEY 1	DIRECT S561	EQ S562	SURROUND S563	DBFB S564	PRESET UP ▷ S565	PRESET DOWN ◁ S567

*2 DBFB level control

Input port	Level	OFF	1	2	3	4
Pin Ⓣ A		-	L	H	L	H
Pin Ⓣ B		-	L	L	H	H
Pin Ⓣ INH		H	L	L	L	L

SECTION 4 EXPLODED VIEW

NOTE:

- XX, -X mean standardized parts, so they may have some differences from the original one.

Color Indication of Appearance Parts

Example:

KNOB,BALANCE(WHITE)...(RED)

↑ ↑
Parts color Cabinet's color

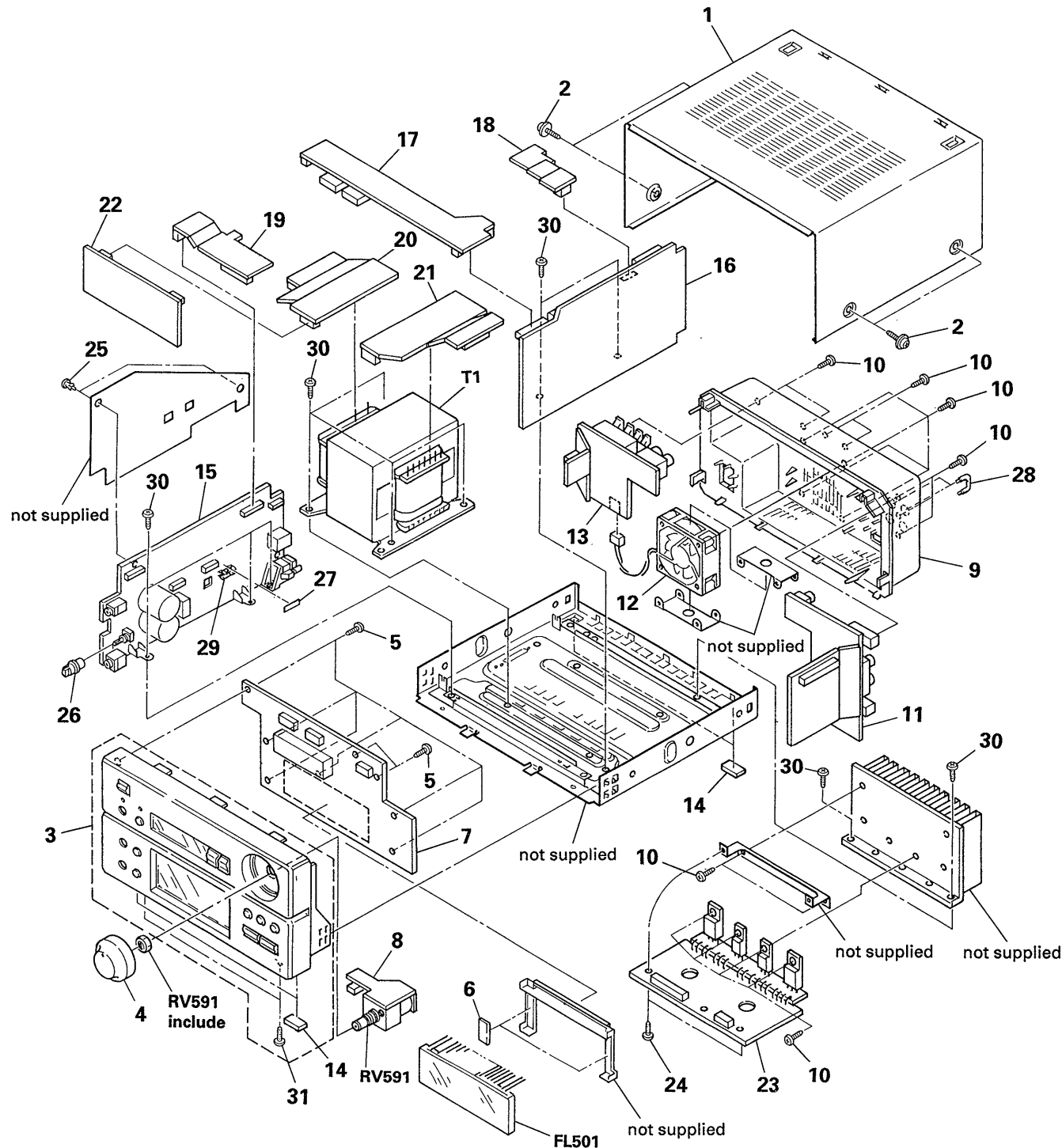
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The mechanical parts with no reference number in the exploded views are not supplied.

- CND : Canadian model
- G : Germany model
- IT : Italian model
- EA : Saudi Arabia model
- AUS : Australian model

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.



Ref. No.	Part No.	Description	Remarks
1	* 4-944-522-01	CASE (K211522)	
2	3-363-099-01	SCREW (CASE +3X8 TP2)	
3	X-4941-543-1	PANEL (AE/NA) ASSY, FRONT	(US, CND, AEP, UK, G, IT)
	X-4941-542-3	PANEL ASSY, FRONT (E, EA, AUS)	
4	X-4941-532-1	KNOB (VOLUME) ASSY	
5	4-928-635-01	SCREW, +BV (2. 6X8) TAPPING	
6	* 4-932-810-11	CUSHION (FL)	
7	* A-4341-635-A	PANEL BOARD, COMPLETE	(US, CND, AEP, UK, E, EA, AUS)
	* A-4345-406-A	PANEL BOARD, COMPLETE (G, IT)	
8	* 1-638-538-11	VOLUME BOARD	
9	4-943-336-51	PANEL, BACK (US, CND, AEP, UK, G, IT, AUS)	
	4-943-336-31	PANEL, BACK (E, EA)	
10	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
11	* 1-638-545-11	JACK BOARD	
12	Δ 1-541-860-11	MOTOR, DC FAN	
13	* 1-638-546-11	SPEAKER BOARD	
14	4-930-336-01	FOOT (FELT)	
15	* A-4341-627-A	POWER SUPPLY BOARD, COMPLETE (AEP, UK, AUS)	
	* A-4341-632-A	POWER SUPPLY BOARD, COMPLETE (G, IT)	
	* A-4341-637-A	POWER SUPPLY BOARD, COMPLETE (E)	
	* A-4341-641-A	POWER SUPPLY BOARD, COMPLETE (US, CND)	
	* A-4341-700-A	POWER SUPPLY BOARD, COMPLETE (EA)	
16	* A-4341-626-A	AUDIO BOARD, COMPLETE (AEP, UK, AUS)	
	* A-4341-631-A	AUDIO BOARD, COMPLETE (G, IT)	
	* A-4341-636-A	AUDIO BOARD, COMPLETE (E, EA)	
	* A-4341-640-A	AUDIO BOARD, COMPLETE (US, CND)	
17	* 1-638-539-11	CONNECTOR BOARD	
18	* 1-638-547-11	CONNECTOR (A) BOARD	
19	* 1-638-548-11	CONNECTOR (B) BOARD	
20	* 1-638-542-11	TRANSFORMER (A) BOARD	
21	* 1-638-543-11	TRANSFORMER (B) BOARD	
22	* 1-638-540-11	TRANSFORMER (C) BOARD	
23	* A-4345-025-A	POWER AMP BOARD, COMPLETE (AEP)	
	* A-4341-633-A	POWER AMP BOARD, COMPLETE (G, IT)	
	* A-4341-638-A	POWER AMP BOARD, COMPLETE (E, EA)	
	* A-4341-642-A	POWER AMP BOARD, COMPLETE (US, CND)	
24	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
25	4-812-134-11	RIVET NYLON, 3.5	
26	4-932-882-11	KNOB (HP. VOL)	
27	3-701-946-26	LABEL (4A 125V), FUSE (US, CND)	
28	1-535-706-11	PLUG, JUMPER (E, EA)	
29	* 1-533-213-31	HOLDER, FUSE	
30	7-682-547-04	SCREW +BVTT 3X6 (S)	
31	7-682-547-09	SCREW +BVTT 3X6 (S)	

SECTION 5

ELECTRICAL PARTS LIST

AUDIO

PANEL

VOLUME

CONNECTOR

TRANSFORMER(C)

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* A-4341-626-A	AUDIO BOARD, COMPLETE	(AEP, UK, AUS)		C252	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
* A-4341-631-A	AUDIO BOARD, COMPLETE	(G, IT)		C253	1-124-907-11	ELECT 10uF	20% 50V
* A-4341-636-A	AUDIO BOARD, COMPLETE	(E, EA)		C254	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
* A-4341-640-A	AUDIO BOARD, COMPLETE	(US, CND)		C255	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
*****				C256	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
* A-4341-635-A	PANEL BOARD, COMPLETE	(US, CND, AEP, UK, E, EA, AUS)		C257	1-164-346-11	CERAMIC CHIP 1uF	16V
* A-4345-406-A	PANEL BOARD, COMPLETE	(G, IT)		C261	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
*****				C262	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
* 1-638-538-11	VOLUME BOARD			C263	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
*****				C264	1-164-343-11	CERAMIC CHIP 0.056uF	10% 25V
* 1-638-539-11	CONNECTOR BOARD			C265	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
*****				C266	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
* 1-638-540-11	TRANSFORMER (C) BOARD			C267	1-163-024-00	CERAMIC CHIP 0.018uF	10% 50V
*****				C268	1-164-232-11	CERAMIC CHIP 0.01uF	50V
* 4-932-810-11	CUSHION (FL)			C269	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
< CAPACITOR >				C270	1-163-016-00	CERAMIC CHIP 0.0039uF	10% 50V
C201	1-124-907-11	ELECT 10uF	20% 50V	C271	1-163-014-00	CERAMIC CHIP 0.0027uF	10% 50V
C202	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C272	1-163-011-11	CERAMIC CHIP 0.0015uF	10% 50V
C203	1-124-907-11	ELECT 10uF	20% 50V	C273	1-163-010-11	CERAMIC CHIP 0.0012uF	10% 50V
C204	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C274	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C205	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C291	1-124-443-00	ELECT 100uF	20% 10V
C206	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C292	1-124-443-00	ELECT 100uF	20% 10V
C207	1-164-346-11	CERAMIC CHIP 1uF	16V	C293	1-124-443-00	ELECT 100uF	20% 10V
C210	1-124-443-00	ELECT 100uF	20% 10V	C294	1-124-443-00	ELECT 100uF	20% 10V
C211	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V	C295	1-124-443-00	ELECT 100uF	20% 10V
C212	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V	C301	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C213	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	C302	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C214	1-164-343-11	CERAMIC CHIP 0.056uF	10% 25V	C311	1-164-346-11	CERAMIC CHIP 1uF	16V
C215	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C312	1-164-346-11	CERAMIC CHIP 1uF	16V
C216	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V	C313	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C217	1-163-024-00	CERAMIC CHIP 0.018uF	10% 50V	C321	1-136-165-00	FILM 0.1uF	5% 50V
C218	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C322	1-136-165-00	FILM 0.1uF	5% 50V
C219	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V	C323	1-124-903-11	ELECT 1uF	20% 50V
C220	1-163-016-00	CERAMIC CHIP 0.0039uF	10% 50V	C325	1-124-907-11	ELECT 10uF	20% 50V
C221	1-163-014-00	CERAMIC CHIP 0.0027uF	10% 50V	C326	1-124-907-11	ELECT 10uF	20% 50V
C222	1-163-011-11	CERAMIC CHIP 0.0015uF	10% 50V	C327	1-124-443-00	ELECT 100uF	20% 10V
C223	1-163-010-11	CERAMIC CHIP 0.0012uF	10% 50V	C341	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C224	1-163-007-11	CERAMIC CHIP 680PF	10% 50V	C342	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C251	1-124-907-11	ELECT 10uF	20% 50V	C343	1-124-443-00	ELECT 100uF	20% 10V
				C351	1-163-117-00	CERAMIC CHIP 100PF	5% 50V

AUDIO

PANEL

VOLUME

CONNECTOR

TRANSFORMER(C)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		(DIODE)					
D291	8-719-990-36	DIODE DCA010		IC508	8-759-925-74	IC SN74HC04NS	
D294	8-719-990-36	DIODE DCA010		IC591	8-759-820-62	IC LB1639	
D311	8-719-990-36	DIODE DCA010		IC601	8-759-636-55	IC M5218AFP	
D312	8-719-990-36	DIODE DCA010		IC731	8-759-636-55	IC M5218AFP	
D331	8-719-990-36	DIODE DCA010					
D341	8-719-990-36	DIODE DCA010		IC741	8-759-636-55	IC M5218AFP	
D342	8-719-990-36	DIODE DCA010		IC901	8-759-823-46	IC LA5603	
D501	8-719-990-36	DIODE DCA010				(CHIP JUMPER)	
D502	8-719-990-36	DIODE DCA010		JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
D503	8-719-990-36	DIODE DCA010		JR4	1-216-295-00	METAL CHIP 0 5% 1/10W	
D504	8-719-990-36	DIODE DCA010		JR6	1-216-295-00	METAL CHIP 0 5% 1/10W	
D505	8-719-990-36	DIODE DCA010		JR7	1-216-295-00	METAL CHIP 0 5% 1/10W	
D550	8-719-313-71	DIODE SEL8867B		JR10	1-216-295-00	METAL CHIP 0 5% 1/10W	
D551	8-719-104-34	DIODE 1S2836		JR12	1-216-295-00	METAL CHIP 0 5% 1/10W	
D571	8-719-301-37	DIODE SEL2210S		JR204	1-216-295-00	METAL CHIP 0 5% 1/10W	
D572	8-719-301-37	DIODE SEL2210S		JR254	1-216-295-00	METAL CHIP 0 5% 1/10W	
D573	8-719-301-37	DIODE SEL2210S		JR501	1-216-295-00	METAL CHIP 0 5% 1/10W	
D574	8-719-301-37	DIODE SEL2210S		JR504	1-216-295-00	METAL CHIP 0 5% 1/10W	
D575	8-719-301-37	DIODE SEL2210S		JR702	1-216-295-00	METAL CHIP 0 5% 1/10W (Except G, IT)	
D576	8-719-301-37	DIODE SEL2210S		JR735	1-216-295-00	METAL CHIP 0 5% 1/10W	
D591	8-719-104-34	DIODE 1S2836		JR752	1-216-295-00	METAL CHIP 0 5% 1/10W (Except G, IT)	
D911	8-719-210-33	DIODE EC10DS2		JR785	1-216-295-00	METAL CHIP 0 5% 1/10W	
D912	8-719-210-33	DIODE EC10DS2		JR911	1-216-295-00	METAL CHIP 0 5% 1/10W	
D913	8-719-210-33	DIODE EC10DS2		JR912	1-216-295-00	METAL CHIP 0 5% 1/10W	
D914	8-719-210-33	DIODE EC10DS2		JR913	1-216-295-00	METAL CHIP 0 5% 1/10W	
D931	8-719-210-33	DIODE EC10DS2		JR915	1-216-295-00	METAL CHIP 0 5% 1/10W	
D932	8-719-210-33	DIODE EC10DS2		JR916	1-216-295-00	METAL CHIP 0 5% 1/10W	
D933	8-719-106-79	DIODE RD13M-B1		JR917	1-216-295-00	METAL CHIP 0 5% 1/10W	
D941	8-719-210-33	DIODE EC10DS2		JR918	1-216-295-00	METAL CHIP 0 5% 1/10W	
D942	8-719-118-15	DIODE RD36M-B		JR919	1-216-295-00	METAL CHIP 0 5% 1/10W	
D951	8-719-210-33	DIODE EC10DS2		JR920	1-216-296-00	METAL CHIP 0 5% 1/8W	
D952	8-719-118-09	DIODE RD30M-B		JR922	1-216-296-00	METAL CHIP 0 5% 1/8W	
D953	8-719-105-82	DIODE RD5.1M-B2		JR923	1-216-296-00	METAL CHIP 0 5% 1/8W	
		(INDICATOR)				(TRANSISTOR)	
FL501	1-519-649-11	INDICATOR TUBE, FLUORESCENT		Q292	8-729-620-06	TRANSISTOR 2SC3052-EF	
		(IC)		Q293	8-729-216-22	TRANSISTOR 2SA1162-G	
IC201	8-759-636-57	IC CXA1492Q		Q311	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC301	8-759-636-55	IC M5218AFP		Q312	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC303	8-759-636-55	IC M5218AFP		Q321	8-729-107-43	TRANSISTOR 2SC3624-L18	
IC304	8-759-009-06	IC MC14052BF		Q322	8-729-805-67	TRANSISTOR 2SA1342	
IC305	8-759-300-71	IC HD14053BFP		Q323	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC501	8-759-153-02	IC μ PD78134-D29-3B9		Q341	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC502	8-759-500-31	IC X24C01P		Q342	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC503	8-759-009-06	IC MC14052BF		Q371	8-729-107-43	TRANSISTOR 2SC3624-L18	
IC504	8-759-991-11	IC XR1091DCP		Q373	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC505	8-759-512-44	IC SN755703		Q501	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC506	8-759-512-44	IC SN755703		Q502	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC507	8-759-636-56	IC M66311FP		Q921	8-729-805-43	TRANSISTOR 2SC3396	
				Q931	8-729-209-15	TRANSISTOR 2SD2012	
				Q932	8-729-620-06	TRANSISTOR 2SC3052-EF	
				Q941	8-729-808-01	TRANSISTOR 2SD1622-S	

When indicating parts by reference number, please include the board name.

AUDIO

PANEL

VOLUME

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TRANSFORMER(C)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q951	8-729-820-86	TRANSISTOR	2SB1121-S	R331	1-216-025-00	METAL CHIP	100 5% 1/10W
		< RESISTOR >		R332	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R201	1-216-073-00	METAL CHIP	10K 5% 1/10W	R333	1-216-748-11	METAL CHIP	39K 5% 1/10W
R202	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R334	1-216-105-00	METAL CHIP	220K 5% 1/10W
R203	1-216-085-00	METAL CHIP	33K 5% 1/10W	R341	1-216-079-00	METAL CHIP	18K 5% 1/10W
R206	1-216-049-00	METAL CHIP	1K 5% 1/10W	R342	1-216-097-00	METAL CHIP	100K 5% 1/10W
R207	1-216-073-00	METAL CHIP	10K 5% 1/10W	R343	1-216-073-00	METAL CHIP	10K 5% 1/10W
R208	1-216-073-00	METAL CHIP	10K 5% 1/10W	R344	1-216-049-00	METAL CHIP	1K 5% 1/10W
R211	1-216-121-00	METAL CHIP	1M 5% 1/10W	R345	1-216-049-00	METAL CHIP	1K 5% 1/10W
R212	1-216-121-00	METAL CHIP	1M 5% 1/10W	R346	1-216-049-00	METAL CHIP	1K 5% 1/10W
R213	1-216-121-00	METAL CHIP	1M 5% 1/10W	R347	1-216-049-00	METAL CHIP	1K 5% 1/10W
R214	1-216-121-00	METAL CHIP	1M 5% 1/10W	R348	1-216-041-00	METAL CHIP	470 5% 1/10W
R215	1-216-121-00	METAL CHIP	1M 5% 1/10W	R349	1-216-025-00	METAL CHIP	100 5% 1/10W
R216	1-216-121-00	METAL CHIP	1M 5% 1/10W	R351	1-216-089-00	METAL CHIP	47K 5% 1/10W
R217	1-216-121-00	METAL CHIP	1M 5% 1/10W	R352	1-216-077-00	METAL CHIP	15K 5% 1/10W
R251	1-216-073-00	METAL CHIP	10K 5% 1/10W	R354	1-216-079-00	METAL CHIP	18K 5% 1/10W
R252	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R371	1-216-053-00	METAL CHIP	1. 5K 5% 1/10W
R253	1-216-085-00	METAL CHIP	33K 5% 1/10W	R372	1-216-109-00	METAL CHIP	330K 5% 1/10W
R256	1-216-049-00	METAL CHIP	1K 5% 1/10W	R373	1-216-079-00	METAL CHIP	18K 5% 1/10W
R257	1-216-073-00	METAL CHIP	10K 5% 1/10W	R374	1-216-121-00	METAL CHIP	1M 5% 1/10W
R258	1-216-073-00	METAL CHIP	10K 5% 1/10W	R375	1-216-097-00	METAL CHIP	100K 5% 1/10W
R261	1-216-121-00	METAL CHIP	1M 5% 1/10W	R376	1-216-097-00	METAL CHIP	100K 5% 1/10W
R262	1-216-121-00	METAL CHIP	1M 5% 1/10W	R377	1-216-097-00	METAL CHIP	100K 5% 1/10W
R263	1-216-121-00	METAL CHIP	1M 5% 1/10W	R378	1-216-041-00	METAL CHIP	470 5% 1/10W
R264	1-216-121-00	METAL CHIP	1M 5% 1/10W	R379	1-216-025-00	METAL CHIP	100 5% 1/10W
R265	1-216-121-00	METAL CHIP	1M 5% 1/10W	R380	1-216-073-00	METAL CHIP	10K 5% 1/10W
R266	1-216-121-00	METAL CHIP	1M 5% 1/10W	R381	1-216-025-00	METAL CHIP	100 5% 1/10W
R267	1-216-121-00	METAL CHIP	1M 5% 1/10W	R382	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R291	1-216-049-00	METAL CHIP	1K 5% 1/10W	R383	1-216-748-11	METAL CHIP	39K 5% 1/10W
R292	1-216-049-00	METAL CHIP	1K 5% 1/10W	R384	1-216-105-00	METAL CHIP	220K 5% 1/10W
R301	1-216-089-00	METAL CHIP	47K 5% 1/10W	R391	1-216-079-00	METAL CHIP	18K 5% 1/10W
R302	1-216-077-00	METAL CHIP	15K 5% 1/10W	R398	1-216-041-00	METAL CHIP	470 5% 1/10W
R304	1-216-079-00	METAL CHIP	18K 5% 1/10W	R399	1-216-025-00	METAL CHIP	100 5% 1/10W
R311	1-216-079-00	METAL CHIP	18K 5% 1/10W	R501	1-216-121-00	METAL CHIP	1M 5% 1/10W
R312	1-216-121-00	METAL CHIP	1M 5% 1/10W	R502	1-216-073-00	METAL CHIP	10K 5% 1/10W
R313	1-216-121-00	METAL CHIP	1M 5% 1/10W	R503	1-216-073-00	METAL CHIP	10K 5% 1/10W
R314	1-216-097-00	METAL CHIP	100K 5% 1/10W	R504	1-216-049-00	METAL CHIP	1K 5% 1/10W
R315	1-216-097-00	METAL CHIP	100K 5% 1/10W	R505	1-216-073-00	METAL CHIP	10K 5% 1/10W
R316	1-216-097-00	METAL CHIP	100K 5% 1/10W	R506	1-216-089-00	METAL CHIP	47K 5% 1/10W
R317	1-216-097-00	METAL CHIP	100K 5% 1/10W	R507	1-216-089-00	METAL CHIP	47K 5% 1/10W
R318	1-216-097-00	METAL CHIP	100K 5% 1/10W	R511	1-216-053-00	METAL CHIP	1. 5K 5% 1/10W
R321	1-216-053-00	METAL CHIP	1. 5K 5% 1/10W	R512	1-216-049-00	METAL CHIP	1K 5% 1/10W
R322	1-216-109-00	METAL CHIP	330K 5% 1/10W	R513	1-216-009-00	METAL CHIP	22 5% 1/10W
R323	1-216-079-00	METAL CHIP	18K 5% 1/10W	R521	1-216-049-00	METAL CHIP	1K 5% 1/10W
R324	1-216-121-00	METAL CHIP	1M 5% 1/10W	R522	1-216-049-00	METAL CHIP	1K 5% 1/10W
R325	1-216-097-00	METAL CHIP	100K 5% 1/10W	R523	1-216-049-00	METAL CHIP	1K 5% 1/10W
R326	1-216-097-00	METAL CHIP	100K 5% 1/10W	R524	1-216-049-00	METAL CHIP	1K 5% 1/10W
R327	1-216-097-00	METAL CHIP	100K 5% 1/10W	R525	1-216-049-00	METAL CHIP	1K 5% 1/10W
R328	1-216-041-00	METAL CHIP	470 5% 1/10W	R526	1-216-049-00	METAL CHIP	1K 5% 1/10W
R329	1-216-025-00	METAL CHIP	100 5% 1/10W	R527	1-216-049-00	METAL CHIP	1K 5% 1/10W
R330	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W	R528	1-216-049-00	METAL CHIP	1K 5% 1/10W
				R530	1-216-089-00	METAL CHIP	47K 5% 1/10W

When indicating parts by reference number, please include the board name.

AUDIO

PANEL

VOLUME

CONNECTOR

TRANSFORMER(C)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R531	1-216-049-00	METAL CHIP	1K 5% 1/10W	R732	1-216-094-00	METAL GLAZE	75K 5% 1/10W
R532	1-216-049-00	METAL CHIP	1K 5% 1/10W	R733	1-216-049-00	METAL CHIP	1K 5% 1/10W (G, IT)
R533	1-216-049-00	METAL CHIP	1K 5% 1/10W	R741	1-216-076-00	METAL GLAZE	13K 5% 1/10W
R534	1-216-049-00	METAL CHIP	1K 5% 1/10W	R742	1-216-089-00	METAL CHIP	47K 5% 1/10W
R535	1-216-049-00	METAL CHIP	1K 5% 1/10W	R743	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R536	1-216-049-00	METAL CHIP	1K 5% 1/10W	R744	1-216-121-00	METAL CHIP	1M 5% 1/10W
R537	1-216-049-00	METAL CHIP	1K 5% 1/10W	R781	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W
R538	1-216-049-00	METAL CHIP	1K 5% 1/10W	R782	1-216-094-00	METAL GLAZE	75K 5% 1/10W
R539	1-216-049-00	METAL CHIP	1K 5% 1/10W	R783	1-216-049-00	METAL CHIP	1K 5% 1/10W (G, IT)
R540	1-216-073-00	METAL CHIP	10K 5% 1/10W	R791	1-216-076-00	METAL GLAZE	13K 5% 1/10W
R541	1-216-073-00	METAL CHIP	10K 5% 1/10W	R792	1-216-089-00	METAL CHIP	47K 5% 1/10W
R542	1-216-041-00	METAL CHIP	470 5% 1/10W	R793	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R551	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R794	1-216-121-00	METAL CHIP	1M 5% 1/10W
R552	1-216-041-00	METAL CHIP	470 5% 1/10W	R923	1-216-025-00	METAL CHIP	100 5% 1/10W
R553	1-216-045-00	METAL CHIP	680 5% 1/10W	R925	1-216-089-00	METAL CHIP	47K 5% 1/10W
R554	1-216-049-00	METAL CHIP	1K 5% 1/10W	R931	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W
R555	1-216-053-00	METAL CHIP	1. 5K 5% 1/10W	R932	1-216-025-00	METAL CHIP	100 5% 1/10W
R561	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R933	1-216-073-00	METAL CHIP	10K 5% 1/10W
R562	1-216-041-00	METAL CHIP	470 5% 1/10W	R934	1-216-073-00	METAL CHIP	10K 5% 1/10W
R563	1-216-045-00	METAL CHIP	680 5% 1/10W	R941	1-216-073-00	METAL CHIP	10K 5% 1/10W
R564	1-216-049-00	METAL CHIP	1K 5% 1/10W	R951	1-216-073-00	METAL CHIP	10K 5% 1/10W
R565	1-216-053-00	METAL CHIP	1. 5K 5% 1/10W	R952	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R566	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W	R953	1-216-025-00	METAL CHIP	100 5% 1/10W
R571	1-216-045-00	METAL CHIP	680 5% 1/10W			< VARIABLE RESISTOR >	
R572	1-216-045-00	METAL CHIP	680 5% 1/10W	RV591	1-241-418-11	RES, VAR, CARBON 10K (VOLUME)	
R573	1-216-045-00	METAL CHIP	680 5% 1/10W			< SWITCH >	
R574	1-216-045-00	METAL CHIP	680 5% 1/10W	S551	1-572-198-11	SWITCH, KEY BOARD (SYSTEM POWER)	
R575	1-216-045-00	METAL CHIP	680 5% 1/10W	S552	1-572-198-11	SWITCH, KEY BOARD (FUNCTION >)	
R576	1-216-045-00	METAL CHIP	680 5% 1/10W	S553	1-572-198-11	SWITCH, KEY BOARD (FUNCTION <)	
R577	1-216-037-00	METAL CHIP	330 5% 1/10W	S554	1-572-198-11	SWITCH, KEY BOARD (WAKE UP)	
R581	1-216-049-00	METAL CHIP	1K 5% 1/10W	S555	1-572-198-11	SWITCH, KEY BOARD (DISPLAY)	
R582	1-216-049-00	METAL CHIP	1K 5% 1/10W	S561	1-572-198-11	SWITCH, KEY BOARD (DIRECT)	
R583	1-216-049-00	METAL CHIP	1K 5% 1/10W	S562	1-572-198-11	SWITCH, KEY BOARD (EQ)	
R584	1-216-049-00	METAL CHIP	1K 5% 1/10W	S563	1-572-198-11	SWITCH, KEY BOARD (S-SUR)	
R585	1-216-049-00	METAL CHIP	1K 5% 1/10W	S564	1-572-198-11	SWITCH, KEY BOARD (DBFB)	
R586	1-216-049-00	METAL CHIP	1K 5% 1/10W	S565	1-572-198-11	SWITCH, KEY BOARD (PRESET ▷)	
R587	1-216-049-00	METAL CHIP	1K 5% 1/10W	S567	1-572-198-11	SWITCH, KEY BOARD (PRESET ◁)	
R588	1-216-073-00	METAL CHIP	10K 5% 1/10W			< CRYSTAL >	
R591	1-216-049-00	METAL CHIP	1K 5% 1/10W	X501	1-577-364-11	VIBRATOR, CERAMIC (12MHZ)	
R592	1-216-049-00	METAL CHIP	1K 5% 1/10W			*****	
R593	1-216-043-00	METAL CHIP	560 5% 1/10W				
R594	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W				
R601	1-216-075-00	METAL CHIP	12K 5% 1/10W				
R602	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R603	1-216-075-00	METAL CHIP	12K 5% 1/10W				
R604	1-216-295-00	METAL CHIP	0 5% 1/10W				
R606	1-216-021-00	METAL CHIP	68 5% 1/10W				
R651	1-216-075-00	METAL CHIP	12K 5% 1/10W				
R652	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R653	1-216-075-00	METAL CHIP	12K 5% 1/10W				
R654	1-216-017-00	METAL CHIP	47 5% 1/10W				
R731	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W				

When indicating parts by reference number, please include the board name.

POWER SUPPLY

POWER AMP

TRANSFORMER(A)

TRANSFORMER(B)

JACK

SPEAKER

CONNECTOR(A)

CONNECTOR(B)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* A-4341-627-A		POWER SUPPLY BOARD, COMPLETE (AEP, UK, AUS)		C804	1-124-927-11	ELECT	4.7uF 20% 100V
* A-4341-632-A		POWER SUPPLY BOARD, COMPLETE (G, IT)		C806	1-136-165-00	FILM	0.1uF 5% 50V
* A-4341-637-A		POWER SUPPLY BOARD, COMPLETE (E)		C807	1-136-165-00	FILM	0.1uF 5% 50V
* A-4341-641-A		POWER SUPPLY BOARD, COMPLETE (US, CND)		C808	1-136-165-00	FILM	0.1uF 5% 50V
* A-4341-700-A		POWER SUPPLY BOARD, COMPLETE (EA)		C809	1-136-165-00	FILM	0.1uF 5% 50V (AEP)
*****				C821	1-124-907-11	ELECT	10uF 20% 50V
* A-4345-025-A		POWER AMP BOARD, COMPLETE (AEP, UK, AUS)		C822	1-162-282-31	CERAMIC	100PF 10% 50V
* A-4341-633-A		POWER AMP BOARD, COMPLETE (G, IT)		C823	1-162-282-31	CERAMIC	100PF 10% 50V
* A-4341-638-A		POWER AMP BOARD, COMPLETE (E, EA)		C824	1-124-927-11	ELECT	4.7uF 20% 100V
* A-4341-642-A		POWER AMP BOARD, COMPLETE (US, CND)		C828	1-136-165-00	FILM	0.1uF 5% 50V
*****				C829	1-136-165-00	FILM	0.1uF 5% 50V (AEP)
* 1-638-542-11		TRANSFORMER (A) BOARD		C831	1-162-306-11	CERAMIC	0.01uF 20% 16V
*****				C832	1-162-306-11	CERAMIC	0.01uF 20% 16V (G, IT)
* 1-638-543-11		TRANSFORMER (B) BOARD		C851	1-124-907-11	ELECT	10uF 20% 50V
*****				C852	1-162-282-31	CERAMIC	100PF 10% 50V
* 1-638-545-11		JACK BOARD		C853	1-162-282-31	CERAMIC	100PF 10% 50V
*****				C854	1-124-927-11	ELECT	4.7uF 20% 100V
* 1-638-546-11		SPEAKER BOARD		C856	1-136-165-00	FILM	0.1uF 5% 50V
*****				C857	1-136-165-00	FILM	0.1uF 5% 50V
* 1-638-547-11		CONNECTOR (A) BOARD		C858	1-136-165-00	FILM	0.1uF 5% 50V
*****				C859	1-136-165-00	FILM	0.1uF 5% 50V (AEP)
* 1-638-548-11		CONNECTOR (B) BOARD		C871	1-124-907-11	ELECT	10uF 20% 50V
*****				C872	1-162-282-31	CERAMIC	100PF 10% 50V
* 1-533-213-31		HOLDER, FUSE		C873	1-162-282-31	CERAMIC	100PF 10% 50V
		< CAPACITOR >		C874	1-124-927-11	ELECT	4.7uF 20% 100V
C401	1-162-282-31	CERAMIC	100PF 10% 50V	C878	1-136-165-00	FILM	0.1uF 5% 50V
C402	1-161-379-00	CERAMIC	0.01uF 20% 25V	C879	1-136-165-00	FILM	0.1uF 5% 50V (AEP)
			(AEP, UK, G, IT, AUS)	C881	1-162-306-11	CERAMIC	0.01uF 20% 16V
C451	1-162-282-31	CERAMIC	100PF 10% 50V	C891	1-136-165-00	FILM	0.1uF 5% 50V (G, IT)
C605	1-161-379-00	CERAMIC	0.01uF 20% 25V	C892	1-136-165-00	FILM	0.1uF 5% 50V (G, IT)
C611	1-162-294-31	CERAMIC	0.001uF 10% 50V	C893	1-136-165-00	FILM	0.1uF 5% 50V (G, IT)
C612	1-124-903-11	ELECT	1uF 20% 50V	C894	1-136-165-00	FILM	0.1uF 5% 50V (G, IT)
C613	1-162-294-31	CERAMIC	0.001uF 10% 50V	C895	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C614	1-124-120-11	ELECT	220uF 20% 25V	C896	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C615	1-124-464-11	ELECT	0.22uF 20% 50V	C897	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C616	1-162-294-31	CERAMIC	0.001uF 10% 50V	C898	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C617	1-124-903-11	ELECT	1uF 20% 50V	C901	1-128-329-11	ELECT	10000uF 20% 42V
C618	1-124-903-11	ELECT	1uF 20% 50V	C902	1-128-329-11	ELECT	10000uF 20% 42V
C620	1-161-379-00	CERAMIC	0.01uF 20% 25V	C903	1-136-171-00	FILM	0.33uF 5% 50V
C655	1-161-379-00	CERAMIC	0.01uF 20% 25V	C904	1-136-171-00	FILM	0.33uF 5% 50V
C701	1-126-176-11	ELECT	220uF 20% 10V	< CONNECTOR >			
C702	1-126-176-11	ELECT	220uF 20% 10V	CN411	* 1-580-739-11	SOCKET, CONNECTOR 15P	
C703	1-124-477-11	ELECT	47uF 20% 25V	CN412	* 1-580-740-11	SOCKET, CONNECTOR 17P	
C704	1-162-306-11	CERAMIC	0.01uF 20% 16V	CN413	1-563-314-11	CONNECTOR, BOARD TO BOARD 20P	
C705	1-161-494-00	CERAMIC	0.022uF 25V	CN601	* 1-569-504-11	PIN, CONNECTOR 9P	
C706	1-124-927-11	ELECT	4.7uF 20% 100V	CN701	1-563-311-11	CONNECTOR, BOARD TO BOARD 10P	
C707	1-124-478-11	ELECT	100uF 20% 25V	CN702	* 1-564-518-11	PLUG, CONNECTOR 3P	
C708	1-124-907-11	ELECT	10uF 20% 50V	CN801	* 1-569-500-11	PIN, CONNECTOR 5P	
C709	1-164-159-11	CERAMIC	0.1uF 50V	CN802	* 1-573-087-11	PIN, CONNECTOR 13P	
C710	1-124-910-11	ELECT	47uF 20% 50V	CN811	1-569-491-11	SOCKET, CONNECTOR 5P	
C711	1-164-159-11	CERAMIC	0.1uF 50V	CN812	1-569-491-11	SOCKET, CONNECTOR 5P	
C801	1-124-907-11	ELECT	10uF 20% 50V	CN821	1-573-094-11	SOCKET, CONNECTOR 13P	
C802	1-162-282-31	CERAMIC	100PF 10% 50V				
C803	1-162-282-31	CERAMIC	100PF 10% 50V				

When indicating parts by reference number, please include the board name.

POWER SUPPLY

POWER AMP

TRANSFORMER(A)

TRANSFORMER(B)

JACK

SPEAKER

CONNECTOR(A)

CONNECTOR(B)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
CN822	1-573-094-11	SOCKET, CONNECTOR 13P		IC871	8-759-323-30	IC LM3875	
CN831	* 1-573-087-11	PIN, CONNECTOR 13P				< IC LINK >	
CN832	1-566-128-11	CONNECTOR, BOARD TO BOARD 10P		ICP402	△ 1-532-845-21	LINK, IC (Except US, CND)	
CN901	△ 1-526-930-11	INLET, AC (US, CND, E)		ICP403	△ 1-532-845-21	LINK, IC (Except US, CND)	
CN901	△ 1-526-931-11	INLET, AC (Except US, CND, E)		ICP911	△ 1-532-846-21	LINK, IC (Except US, CND)	
CN902	* 1-580-940-11	PIN, CONNECTOR 4P		ICP912	△ 1-532-846-21	LINK, IC (Except US, CND)	
CN903	* 1-580-940-11	PIN, CONNECTOR 4P (E, EA)				< JACK >	
CN904	* 1-569-502-11	PIN, CONNECTOR 7P		J401	1-565-304-11	JACK, PIN 4P (E, EA)	
CN911	1-580-939-11	SOCKET, CONNECTOR 4P		J402	1-569-662-11	JACK, PIN 1P	
CN912	1-580-939-11	SOCKET, CONNECTOR 4P (E, EA)		J601	1-562-837-21	JACK	
CN913	1-569-493-11	SOCKET, CONNECTOR 7P		J611	1-562-837-21	JACK	
CN914	* 1-569-502-11	PIN, CONNECTOR 7P				< COIL >	
CN921	* 1-569-502-11	PIN, CONNECTOR 7P		L801	* 1-420-872-00	COIL, AIR CORE	
CN922	1-569-496-11	SOCKET, CONNECTOR 10P		L821	* 1-420-872-00	COIL, AIR CORE	
		< DIODE >		L851	* 1-420-872-00	COIL, AIR CORE	
D701	8-719-912-20	DIODE 1SS120		L871	* 1-420-872-00	COIL, AIR CORE	
D702	8-719-912-20	DIODE 1SS120				< LINE FILTER >	
D703	8-719-912-20	DIODE 1SS120		LF901	△ 1-424-485-11	FILTER, LINE (G, IT)	
D704	8-719-912-20	DIODE 1SS120				< TRANSISTOR >	
D705	8-719-912-20	DIODE 1SS120		Q611	8-729-620-05	TRANSISTOR 2SC2603-EF	
D706	8-719-912-20	DIODE 1SS120		Q612	8-729-620-05	TRANSISTOR 2SC2603-EF	
D801	8-719-912-20	DIODE 1SS120		Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D802	8-719-912-20	DIODE 1SS120		Q702	8-729-801-84	TRANSISTOR 2SB1013-4	
D811	8-719-912-20	DIODE 1SS120		Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D812	8-719-912-20	DIODE 1SS120		Q821	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D821	8-719-912-20	DIODE 1SS120		Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D822	8-719-912-20	DIODE 1SS120		Q871	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D851	8-719-912-20	DIODE 1SS120				< RESISTOR >	
D852	8-719-912-20	DIODE 1SS120		R401	1-249-417-11	CARBON 1K 5% 1/4W	
D871	8-719-912-20	DIODE 1SS120		R451	1-249-417-11	CARBON 1K 5% 1/4W	
D872	8-719-912-20	DIODE 1SS120		R605	1-249-405-11	CARBON 100 5% 1/4W	
D901	8-719-302-38	DIODE RBV-602-01		R606	1-249-429-11	CARBON 10K 5% 1/4W	
D902	8-719-912-20	DIODE 1SS120		R611	1-249-429-11	CARBON 10K 5% 1/4W	
D903	8-719-912-20	DIODE 1SS120		R612	1-249-417-11	CARBON 1K 5% 1/4W	
		< FUSE >		R613	1-249-429-11	CARBON 10K 5% 1/4W	
F901	△ 1-532-388-51	FUSE T2A (Except US, CND)		R614	1-249-441-11	CARBON 100K 5% 1/4W	
F901	△ 1-576-108-11	FUSE 4A (US, CND)		R615	1-249-429-11	CARBON 10K 5% 1/4W	
F902	△ 1-532-350-00	FUSE T4A (E, EA)		R616	1-249-429-11	CARBON 10K 5% 1/4W	
F911	△ 1-532-783-21	FUSE, MICRO (SECONDARY) 5A (US, CND)		R617	1-249-441-11	CARBON 100K 5% 1/4W	
F912	△ 1-532-783-21	FUSE, MICRO (SECONDARY) 5A (US, CND)		R618	1-249-441-11	CARBON 100K 5% 1/4W	
		< IC >		R619	1-247-903-00	CARBON 1M 5% 1/4W	
IC701	8-759-111-68	IC uPC1237HA		R620	1-249-441-11	CARBON 100K 5% 1/4W	
IC702	8-759-987-16	IC LM393P		R655	1-249-405-11	CARBON 100 5% 1/4W	
IC703	8-759-512-73	IC LM35DZ-SL		R701	1-249-433-11	CARBON 22K 5% 1/4W	
IC801	8-759-514-90	IC LM3875-1					
IC821	8-759-323-30	IC LM3875					
IC851	8-759-514-90	IC LM3875-1					

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

POWER SUPPLY

POWER AMP

TRANSFORMER(A)

TRANSFORMER(B)

JACK

SPEAKER

CONNECTOR(A)

CONNECTOR(B)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R702	1-249-441-11	CARBON	100K 5% 1/4W	R861	1-249-429-11	CARBON	10K 5% 1/4W
R703	1-249-433-11	CARBON	22K 5% 1/4W	R871	1-249-417-11	CARBON	1K 5% 1/4W
R704	1-249-433-11	CARBON	22K 5% 1/4W	R872	1-249-434-11	CARBON	27K 5% 1/4W
R705	1-249-429-11	CARBON	10K 5% 1/4W	R873	1-249-411-11	CARBON	330 5% 1/4W
R706	1-249-429-11	CARBON	10K 5% 1/4W	R874	1-249-434-11	CARBON	27K 5% 1/4W
R707	1-249-429-11	CARBON	10K 5% 1/4W	R875	△ 1-217-151-00	RES, METAL PLATE	0.22 2W
R708	1-249-424-11	CARBON	3.9K 5% 1/4W	R876	1-249-417-11	CARBON	1K 5% 1/4W
R709	1-249-427-11	CARBON	6.8K 5% 1/4W	R877	1-249-431-11	CARBON	15K 5% 1/4W
R710	1-249-429-11	CARBON	10K 5% 1/4W	R878	1-249-441-11	CARBON	100K 5% 1/4W
R711	1-249-417-11	CARBON	1K 5% 1/4W	R879	△ 1-212-958-00	FUSIBLE	10 5% 1/2W F
R712	1-249-437-11	CARBON	47K 5% 1/4W	R880	1-249-436-11	CARBON	39K 5% 1/4W
R713	1-249-429-11	CARBON	10K 5% 1/4W	R881	1-249-429-11	CARBON	10K 5% 1/4W
R714	1-249-417-11	CARBON	1K 5% 1/4W	R891	△ 1-247-727-11	CARBON	10 5% 1/2W (G, IT)
R715	△ 1-213-072-61	FUSIBLE	33 5% 1W F	R892	△ 1-247-727-11	CARBON	10 5% 1/2W (G, IT)
R800	1-249-393-11	CARBON	10 5% 1/4W (US, CND)	R893	△ 1-247-727-11	CARBON	10 5% 1/2W (G, IT)
R801	1-249-417-11	CARBON	1K 5% 1/4W	R894	△ 1-247-727-11	CARBON	10 5% 1/2W (G, IT)
R802	1-249-434-11	CARBON	27K 5% 1/4W	R901	△ 1-202-725-00	SOLID	3.3M 10% 1/2W (US, CND)
R803	1-249-412-11	CARBON	390 5% 1/4W	R902	1-249-429-11	CARBON	10K 5% 1/4W
R804	1-249-434-11	CARBON	27K 5% 1/4W	R921	△ 1-212-857-00	FUSIBLE	10 5% 1/4W F
R805	△ 1-217-151-00	RES, METAL PLATE	0.22 2W				
R806	1-249-417-11	CARBON	1K 5% 1/4W			< VARIABLE RESISTOR >	
R807	1-249-431-11	CARBON	15K 5% 1/4W	RV611	1-241-140-11	RES, VAR, CARBON 10K	(MIC LEVEL)
R808	1-249-441-11	CARBON	100K 5% 1/4W			< RELAY >	
R809	△ 1-212-958-00	FUSIBLE	10 5% 1/2W F	RY801	1-515-790-11	RELAY	
R810	1-249-439-11	CARBON	68K 5% 1/4W	RY802	1-515-790-11	RELAY	
R811	1-249-429-11	CARBON	10K 5% 1/4W	RY901	1-515-626-11	RELAY	
R821	1-249-417-11	CARBON	1K 5% 1/4W			< VOLTAGE SELECTOR >	
R822	1-249-434-11	CARBON	27K 5% 1/4W	S901	△ 1-572-009-11	SELECTOR, VOLTAGE (E, EA)	
R823	1-249-411-11	CARBON	330 5% 1/4W			< TRANSFORMER >	
R824	1-249-434-11	CARBON	27K 5% 1/4W	T1	△ 1-450-375-11	TRANSFORMER, POWER (AEP, G, IT)	
R825	△ 1-217-151-00	RES, METAL PLATE	0.22 2W	T1	△ 1-450-376-11	TRANSFORMER, POWER (UK, AUS)	
R826	1-249-417-11	CARBON	1K 5% 1/4W	T1	△ 1-450-377-11	TRANSFORMER, POWER (E, EA)	
R827	1-249-431-11	CARBON	15K 5% 1/4W	T1	△ 1-450-378-11	TRANSFORMER, POWER (US, CND)	
R828	1-249-441-11	CARBON	100K 5% 1/4W			< TERMINAL BOARD >	
R829	△ 1-212-958-00	FUSIBLE	10 5% 1/2W F	TB801	1-537-336-11	TERMINAL BOARD (SP)	
R830	1-249-437-11	CARBON	47K 5% 1/4W			*****	
R831	1-249-429-11	CARBON	10K 5% 1/4W			MISCELLANEOUS	
R851	1-249-417-11	CARBON	1K 5% 1/4W			*****	
R852	1-249-434-11	CARBON	27K 5% 1/4W			△ 1-541-860-11	MOTOR, DC FAN
R853	1-249-412-11	CARBON	390 5% 1/4W			1-535-706-11	PLUG, JUMPER (E, EA)
R854	1-249-434-11	CARBON	27K 5% 1/4W			* 1-533-213-31	HOLDER, FUSE
R855	△ 1-217-151-00	RES, METAL PLATE	0.22 2W				
R856	1-249-417-11	CARBON	1K 5% 1/4W				
R857	1-249-431-11	CARBON	15K 5% 1/4W				
R858	1-249-441-11	CARBON	100K 5% 1/4W				
R859	△ 1-212-958-00	FUSIBLE	10 5% 1/2W F				
R860	1-249-438-11	CARBON	56K 5% 1/4W				

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

